

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent app	lication of
Applicant: Serial No.: Filed: For: Art Unit: Examiner:	Bryan T. Starbuck, et al. 10/601,741 June 23, 2003 ADVANCED SPAM DETECTION TECHNIQUES 2154 Unknown
	INFORMATION DISCLOSURE STATEMENT
Assistant Commi Alexandria, Virg	ssioner for Patents inia 22313-1450
Sir:	
patents, publicati except for: (a) pe	to 37 C.F.R. 1.97 and 1.98, and in compliance with 37 C.F.R. 1.56, the Office's attention is directed to the ons and other information listed on the attached PTO-1449. A copy of each listed document is enclosed ending applications or (b) those previously cited or submitted to the Office in the following application(s) application relies for an earlier filing date under 35 U.S.C. 120:
Serial No.: Filing Date:	
Applicant(s) beli	ocument, publication or other information for which a date is not given on the attached PTO-1449, eve(s) the same may qualify as "prior" art to this application and should be treated accordingly, although erve(s) the right to contest the prior art status of any document, publication or information, should issue arise
2. Regarding Statement as ind following document to the state of the s	g each listed document that is not in the English language, an English-language translation accompanies this icated on the attached PTO-1449 or a concise explanation of the relevance of the document is set forth in the tent(s):
(a)C	opy of each English language version of a search report indicating the degree of relevance found by the foreign office of each document being submitted from the search report.
(b)A	ttachment entitled "Concise Explanation of Relevance of Non-English Language Documents".
3. Pursuant	to 37 C.F.R. 1.97(b) this Statement is being filed (one must be checked):
(a)	Within 3 months of the filing date or date of entry into the National Stage.
(b) <u>X</u>	Before the mailing date of a first Office Action on the merits. If this Statement is not filed before the mailing date of a first Office Action on the merits, the required certification is given below or, in the absence thereof, the Office is authorized to charge the required fee set forth in 37 C.F.R. 1.17(p) to Depos Account No. 50-1063 for consideration of this Statement.



After the period set forth in 37 C.F.R. 1.97(b) but before the mailing date of either a final action or a notice of allowance.

- (1) \_\_\_\_ The required certification is given below, or
- (2) \_\_\_ Enclosed is a check covering the fee set forth in 37 C.F.R. 1.17(p) for consideration of this Statement, or
- (3) \_\_\_ Charge the fee set forth in 37 C.F.R. 1.17(p) to Deposit Account No. 50-1063.
- (d) \_\_\_After the mailing date of either a final action or a notice of allowance, but before payment of the issue fee.

  Petition hereby is made for consideration of this Statement and the required certification is indicated below.
  - (1) \_\_\_ Enclosed is a check covering the fee set forth in 37 C.F.R. 1.17(i)(1), or
  - (2) \_\_ Charge the fee set forth in 37 C.F.R. 1.17(i)(1) to Deposit Account No. 50-1063.
- 4. Certification (if applicable)
  - (a) \_\_\_\_ The undersigned hereby certifies that each item of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than 3 months prior to the filing of this Statement.
  - (b) \_\_\_The undersigned hereby certifies that no item of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the undersigned's knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. 1.56(c) more than 3 months prior to the filing of this Statement.
- 5. The Commissioner is hereby authorized to charge any additional fees or credit any overpayment to Deposit Account No. 50-1063.

Respectfully Submitted,

Jeffrey R. Sadlowski Reg. No. 47,914

24<sup>TH</sup> Floor, National City Center 1900 East 9<sup>th</sup> Street Cleveland, Ohio 44114 (216) 696-8730

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8

I hereby certify that this correspondence (along with any paper referenced as being attached or enclosed) is being deposited on the below date with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Assistant Commissioner for Patents, Alexandria, Virginia 22313-1450.

Date: 2-18-2004

Jeffrey R. Sadlowski

PTO/SB/08A (04-03)

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

 Complete if Known

 Application Number
 10/601,741

 Filing Date
 June 23, 2003

 First Named Inventor
 Bryan T. Starbuck, et al.

 Art Unit
 2154

 Examiner Name
 Unknown

 Attorney Docket Number
 MS303962.1/MSFTP438US

Sheet		1 of	4	Attorney Docket Number MS303	962.1/MSFTP438US
			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Document Number  Number-Kind Code <sup>2 (f known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
<del></del>		<sup>US-</sup> 6,161,130	12/12/2000	Horvitz, et al.	
		<sup>US-</sup> 6,023,723	02/08/2000	McCormick, et al.	
<del></del>		US-6,003,027	12/14/1999	Prager	
		<sup>US-</sup> 5,835,087	11/10/1998	Herz, et al.	
		<sup>US-</sup> 5,638,487	06/10/1997	Chigier	
		<sup>US-</sup> 5,619,648	04/08/1997	Canale, et al.	
		US- 5,377,354	12/27/1994	Scannel, et al.	
		us-6,192,360	2/20/2001	Dumais, et al.	
		<sup>US-</sup> 5,704,017	12/30/1997	Heckerman, et al.	
		<sup>US-</sup> 6,266,692	07-24-2001	Greenstein	
<del></del>		<sup>US-</sup> 6,484,197	11-19-2002	Donohue	
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		FORE	IGN PATENT DOCL	IMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code <sup>3 -</sup> Number <sup>4 -</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T .
		EP720 333	07/03/1996	A T & T Corp.		
		EP413 537	02/20/1991	Digital Equipment Int.		
		WO96/35994	11/14/1996	Compuserve, Inc.		
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Examiner	Date	-
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Office, U.S. Paternation of Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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MS303962.1/MSFTP438US

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4

Sheet

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of

Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
· · · · · ·		CYNTHIA DWORK, et al.; "Pricing Via Processing or Combatting Junk Mail"; Presented at Crypto '92; pp. 1-11	
		THORSTEN JOACHIMS; "Text Categorization with Support Vector Machines: Learning with Many Relevant Features"; LS-8 Report 23, November 1997, 18 pages.	
		DAPHNE KOLLER, et al.; "Hierarchically Classifying Doucments Using Very Few Words"; In ICML-97: Proceedings of the Fourteenth International Conference on Machine Learning; San Francisco, CA: Morgan Kaufmann 1997; 9 pages	
		ELLEN SPERTUS; "Smokey: Automatic Recognition of Hostile Messages"; Proceedings of the Conference on Innovative Applications in Artificial Intelligence (IAAI), 1997, 8 pages.	
		HINRICH SCHUTZE, et al.; "A Comparison of Classifiers and Document Representations for the Routing Problem"; Proceedings of the 18th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, Seattle, WA, July 9-13, 1995; pp. 229-237	
		YIMING YANG, et al.; "A Comparative Study on Feature Selection in Text Categorization"; School of Computer Science, Carnegie Mellon University, Pittsburgh, PA, and Verity, Inc., Sunnyvale, CA; 9 pages	
		YIMING YANG, et al.; "An Example-Based Mapping Method for Text Categorization and Retrieval"; ACM Transactions on Information Systems, Vol. 12, No. 3, July 1994, pp. 252-277.	
		DAVID D. LEWIS, et al.; "A Comparison of Two Learning Algorithms for Text Categorization"; Third Annual Symposium on Document Analysis and Information Retrieval; April 11-13, 1994; pp. 81-93.	
		MEHRAN SAHAMI; "Learning Limited Dependence Bayesian Classifiers"; In KDD-96: Proceedings of the Second International Conference on Knowledge Discovery and Data Mining; AAAI Press, 1996; Menlo Park, CA; pp. 335-338	
		WILLIAM W. COHEN; "Learning Rules that Classify E-Mail"; In the Proceedings of the 1996 AAAI Spring Symposium on Machine Learning in Information Access. Downloaded from William Cohen's web page: http://www.research.att.com/nwcohen/pubs.html	

Examiner Date Considered			
l Considered I	Evaminer	Date	
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Substitute for form 1449/PTO				Application Number	10/601,741	
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STATEMENT BY APPLICANT		First Named Inventor	Bryan T. Starbuck et al.			
				Art Unit	2154	
	(Use as many she	ets as n	ecessary)	Examiner Name	Unknown	
Sheet	3	of	4	Attorney Docket Number	MS303962.1/MSFTP438US	

Examiner	Cite	NON PATENT LITERATURE DOCUMENTS  Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of	_
Examiner Initials*	No.1	the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		MAKOTO IWAYAMA, et al.; "Hierarchical Bayesian Clustering for Automatic Text Classifiation"; Natural Language; 1995; pp. 1322-1327.	
		DAVID D. LEWIS; "An Evaluation of Phrasal and Clustered Representations on a Text Categorization Task"; 15th Annual International SIGIR '92; Denmark 1992; pp. 37-50.	
		DAPHNE KOLLER, et al.; "Toward Optimal Feature Selection"; Machine Learning; Proc. of the Thirteenth International Conference, Morgan Kaufmann, 1996, 9 pages.	
		DAVID DOLAN LEWIS; "Representation and Learning in Information Retrieval"; University of Massachusetts, 1992	
		TOM MITCHELL; "Machine Learning"; Carnegie Mellon University, Bayesian Learning, Chapter 6, pp. 180-184	
		Y. H. Li, et al.; "Classification of Text Documents"; Department of Computer Science and Engineering, Michigan State University, E. Lansing, Michigan, The Computer Journal, Vol. 41, No. 8, 1998; 537-546.	
		JUHA TAKKINEN, et al.; "CAFE: A Conceptual Model for Managing Information in Electronic Mail"; Laboratory for Intelligent Information Systems, Department of Computer and Information Science, Linkoping University, Sweden, Conference on System Sciences, 1998 IEEE	
		JACOB PALME, et al.; "Issues When Designing Filters In Messaging Systems"; Department of Computer and Systems Sciences, Stockholm University, Royal Institute of Technology, Skeppargarten 73, S-115 30, Stockholm, Sweden, Computer Communications; 1996; pp. 95-101.	
		RICHARD B. SEGAL, et al., "SwiftFile: An Intelligent Assistant for Organizing E-Mail"; IBM Thomas J. Watson Research Center	
		MEHRAN SAHAMI, et al., "A Bayesian Approach to Filtering Junk E-Mail"; Stanford University	

Examiner	Date	
	Considered	
Signature		itation if not in conformance and not

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Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		DAVID MADIGAN, "Statistics and The War on Spam," Rutgers University, pp. 1-13, 2003	
		PADRAIG CUNNINGHAM, et al., "A Case-Based Approach to Spam Filtering that Can Track Concept Drift," Trinity College, Dublin, Department of Computer Science, 5/13/03	
		MARK ROSEN, "E-mail Classification in the Haystack Framework," Massachusetts Institute of Technology, February, 2003	
		KEVIN R. GEE, Using Latent Semantic Indexing to Filter Spam, Dept. of Computer Science and Engineering, University of Texas-Arlington, 5 pages	
		THORSTEN JOACHIMS, Transductive Inference for Text Classification Using Support Vector Machines, In Proceedings of the 16th International Conference on Machine Learning, 1999, pp. 200-209, San Francisco, USA	

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